IN THE CLAIMS

1-5. (Cancelled)

6. (Currently Amended) <u>A 10-desmethyl macrolide comprising</u> Maerolides as elaimed in elaim 1 of formula II-III:, 1V or V

- (1) R is methyl substituted with one or more substituents selected from the group consisting of
- (i) CN,
- (ii) F,
- (iii)CO₂R³ wherein R³ is selected from hydrogen, C₁-C₃-alkyl or aryl substituted C₁-C₃-alkyl, or heteroaryl substituted C₁-C₃-alkyl,
- (iv) OR^4 wherein R^4 is selected from hydrogen, C_1 - C_4 -alkyl or aryl substituted C_1 - C_4 -alkyl, or heteroaryl substituted C_1 - C_4 -alkyl, heterocycloalkyl and optionally substituted cycloalkyl, C_1 - C_3 -alkoxy- C_1 - C_3 -alkoxy, C_2 - C_4 -alkenyl or aryl substituted C_2 - C_4 -alkenyl, or heteroaryl substituted

- C₂-C₄-alkenyl, heterocycloalkyl and optionally substituted cycloalkyl, aryl or optionally substituted aryl, heteroaryl or optionally substituted heteroaryl,
- (v) S(O)_nR³ wherein n =0, 1 or 2 and R³ is as previously defined
- (vi) NR⁴C(O)R³ wherein R³ and R⁴ are as previously defined
- $(vii)NR^4C(O)NR^5R^6$ wherein R^4 is defined as defined previously, and R^5 and R^6 are independently selected from hydrogen, C_1 - C_3 -alkyl, C_1 - C_3 alkyl substituted with aryl, substituted aryl, heteroaryl, substituted heteroaryl
- (viii) NR^7R^8 wherein R^7 and R^8 are independently selected from the group consisting of
- (a) hydrogen
- (b) C1-C12-alkyl, and optionally substituted C1-C12-alkyl
- (c) C2-C12-alkenyl, and optionally substituted C2-C12-alkenyl
- (d) C2-C12-alkynyl, and optionally substituted C2-C12-alkynyl
- (e) aryl, and optionally substituted aryl
- (f) heteroaryl, and optionally substituted heteroaryl
- (g) heterocycloalkyl, and optionally substituted heterocycloalkyl
- (h) C1-C12 alkyl substituted with aryl, and optionally substituted with substituted aryl
- (i) C1-C12 alkyl substituted with heteroaryl, and optionally substituted with substituted heteroaryl
- (j) C₁-C₁₂ alkyl substituted with heterocycloalkyl, and with optionally substituted heterocycloalkyl, and
- (k) R^2 and R^8 taken together with the atom to which they are attached from a 3-10- membered heterocycloalkyl ring which may contain one or more additional heteroatoms and may be substituted with one or more substituents independently selected from the group consisting of
 - $\label{eq:continuous} (aa) \quad \text{halogen, hydroxy, C_1-C_3-alkoxy, alkoxy-C_1-C_3-} \quad \text{alkoxy, oxo, C_1-C_3-alkyl, aryl} \\ \text{and optionally substituted aryl, heteroaryl and optional substituted heteroaryl} \\$
 - (bb) CO₂R³ wherein R³ is as previously defined, and
 - (cc) C(O)NR5R6 wherein R5 and R6 are as previously defined,
- (ix) aryl, and optionally substituted aryl, and
- (x) heteroaryl, and optionally substituted heteroaryl,
- (2) C2-C10-alkyl,
- (3) C₂-C₁₀-alkyl substituted with one or more substituents selected from the group consisting
- of
- (i) halogen,
- (ii) OR4 wherein R4 is as defined previously
- (iii)-CHO,
- (iv) oxo,
- (v) (v) NR^7R^8 wherein R^7 and R^8 are defined as previously

- (vi) =N-O-R⁴ is wherein R³ is as previously defined
- (vii)-CN
- (viii)-S(O)_n R^3 wherein n = 0, 1 or 2 and R^3 is as previously defined
- (ix) aryl, and optionally substituted aryl
- (x) heteroaryl, and optionally substituted heteroaryl
- (xi) C₃-C₈-cycloalkyl, and optionally substituted C₃-C₈-cycloalkyl
- (xii)heterocycloalkyl, and optionally substituted heterocycloalkyl
- (xiii) NR4C(O)R3 where R3 and R4 are as previously defined
- (xiv) NR4C(O)NR5R6 wherein R4, R5 and R6 are as previously defined
- (xv) =N-NR⁷R⁸ wherein R⁷ and R⁸ are as previously defined
- (xvi)=N-R4 wherein R4 is as previously defined
- (xvii)=N-NR4C(O)R3 wherein R3 and R4 are as previously defined, and
- (xviii)=N-NR4C(O)NR5R6 wherein R4, R5 and R6 are as previously defined,
- (4) C₂-C₁₀-alkenyl,
- (5) C₂-C₁₀-alkenyl substituted with one or more substituents selected from the group consisting of
- (i) halogen,
- (ii) OR4 wherein R4 is as previously defined
- (iii) O-S(O)_nR³ where n and R³ are as previously defined
- (iv)-CHO,
- (v) oxo,
- (vi)-CO₂R³ where R³ is as previously defined
- (vii)-C(O)-R4 where R4 is as previously defined
- (viii) -CN
- (ix) aryl, and optionally substituted aryl
- (x) heteroaryl, and optionally substituted heteroaryl
- (xi) C3-C7-cycloalkyl
- (xii) C1-C12-alkyl substituted with heteroaryl
- (xiii)NR7R8 wherein R7 and R8 are as previously defined
- (xiv) NR4C(O)R3 where R3 and R4 are as previously defined
- (xv) NR⁴C(O)NR⁵R⁶ where R⁴, R⁵ and R⁶ are as previously defined
- (xvi) =N-O-R4 where R4 is as previously defined
- (xvii)=N-NR⁷R⁸ wherein R⁷ and R⁸ are as previously defined
- (xviii) = $N-NR^4$ wherein R^4 is as previously defined
- (xix)=N-NR $^4C(O)R^3$ wherein R^3 and R^4 are as previously defined, and
- (xx)=N-NR $^4C(O)NR^5R^6$ wherein $R^4,\,R^5$ and R^6 are as previously defined,

- (6) C2-C10-alkynyl
- (7) C₂-C₁₀-alkynyl substituted with one or more substituents selected from the group consisting of
- (i) trialkylsilyl
- (ii) halogen,
- (iii) -CN
- (iv) OR4 where R4 is defined as previously
- (v)-CHO,
- (vi) oxo,
- (vii)-CO₂R³ where R³ is as previously defined
- (viii)-C(O)NR5R6 wherein R5 and R6 are as previously defined
- (ix)NR7R8 wherein R7 and R8 are as previously defined
- (x) O-S(O)_nR³ where n and R³ are as previously defined
- (xi) C3-C7-cycloalkyl
- (xii) C1-C12-alkyl substituted with heteroaryl
- (xiii)aryl, and optionally substituted aryl
- (xiv) heteroaryl, and optionally substituted heteroaryl
- (xv) NR⁴C(O)R³ where R³ and R⁴ are as previously defined
- (xvi) $NR^4C(O)NR^5R^6$ where R^4 , R^5 and R^6 are as previously defined
- (xvii) =N-O-R4 where R4 is as previously defined
- (xviii)=N-NR7R8 wherein R7 and R8 are as previously defined
- (xix)=N-NR⁴C(O)R³ wherein R³ and R⁴ are as previously defined, and
- (xx)=N-NR⁴C(O)NR⁵R⁶ wherein R⁴, R⁵ and R⁶ are as previously defined,
- (8) cyclic substituents
- (i) aryl, and optionally substituted aryl
- (ii) heteroaryl, and optionally substituted heteroaryl
- (iii) heterocycloalkyl, and optionally substituted heterocycloalkyl, and
- (iv) C3-C7-cycloalkyl, and optionally substituted C3-C7-cycloalkyl, and
- (9) C₁ substituents with the exception of 10-methyl derivatives which are part of the above definitions under (1)
- (i) -CHO
- (ii) -CN
- (iii)CO₂R³ wherein R³ is as previously defined
- (iv) $C(O)NR^5R^6$ wherein R^5 and R^6 are as previously defined
- (v) C(S)NR⁵R⁶ wherein R⁵ and R⁶ are as previously defined
- (vi) $C(NR^4)NR^5R^6$ wherein R^4 , N^5 and R^6 are as previously defined

- (vii) (vii) CH=N-O-R⁴ wherein R⁴ is as previously defined
- (viii) CH=N-R4 is wherein R4 is as previously defined
- (ix) CH=N-NR7R8 wherein R7 and R8 are as previously defined
- (x) CH=N-NR⁴C(O)R³ wherein R³ and R⁴ are as previously defined, and
- (xi) CH=N-NR⁴C(O)NR⁵R⁶ wherein R⁴, R⁵ and R⁶ are as previously defined;

R1 is selected from the group consisting of

- (1) H
- (2) methyl
- (3) methyl substituted with one or more substituents selected from the group consisting of
- (i) F
- (ii) -CN
- (iii)-CO₂R¹¹ where R^{11} is C_1 - C_3 -alkyl or aryl substituted C_1 - C_3 -alkyl, or heteroalkyl substituted C_1 - C_3 -alkyl
- (iv) -C(O)NR5R6 wherein R5 and R6 are defined as previously
- (v) aryl, and optionally substituted aryl, and
- (vi) heteroaryl, and optionally substituted heteroaryl
- (4) C₂-C₁₀-alkyl
- (5) substituted C₂-C₁₀-alkyl with one or more substituents selected from the group consisting of
- (i) halogen,
- (ii) OR4 where R4 is defined as previously
- (iii) C1-C3-alkoxy-C1-C3-alkoxy
- (iv)-CHO
- (v) oxo
- (vi)NR $^7 R^8$ wherein R^7 and R^8 are as previously defined
- (vii) =N-O-R4 where R4 is as previously defined
- (viii) -CN
- (ix) $-S(O)_nR^3$ where n = 0, 1, or 2 and R^3 is as previously defined
- (x)aryl, and optionally substituted aryl
- (xi) heteroaryl, and optionally substituted heteroaryl
- (xii) C3-C8-cycloalkyl, and optionally substituted C3-C8-cycloalkyl
- (xiii) C1-C12-alkyl substituted with heteroaryl, and optionally substituted heteroaryl
- (xiv) heterocycloalkyl
- (xv) NHC(O)R3 where R3 is as previously defined
- (xvi) NHC(O)NR $^5R^6$ where R^5 and R^6 are as previously defined
- (xvii)=N-NR 7 R 8 wherein R 7 and R 8 are as previously defined

- (xviii) =N-R4 wherein R4 as previously defined, and
- (xix)=N-NHC(O)R3 wherein R3 is as previously defined,
- (4) C1-C10-alkenyl substituted with one or more substituents selected from the group consisting of
- (i) halogen,
- (ii) OR4 where R4 is as previously defined
- (iii)-CHO
- (iv) oxo
- (v) -S(O)_nR³ where n and R³ are as previously defined
- (vi) -CN
- (vii) -CO₂R³ where R³ is as previously defined
- $(viii)NR^7R^8$ wherein R^7 and R^8 are as previously defined
- (ix) =N-O-R4 where R4 is as previously defined
- (x) -C(O)-R⁴ where R⁴ is as previously defined
- (xi) -C(O)NR5R6 wherein R5 and R6 are as previously defined
- (xii)aryl, and optionally substituted aryl
- (xiii) heteroaryl, and optionally substituted heteroaryl
- (xiv) C3-C7-cycloalkyl
- (xv) C1-C12-alkyl substituted with heteroaryl
- (xvi) NHC(O)R3 where R3 is as previously defined
- (xvii) NHC(O)NR5R6 where R5 and R6 are as previously defined
- (xviii)=N-NR7R8 wherein R7 and R8 are as previously defined
- (xix) =N-R4 wherein R4 is as previously defined,
- (xx)=N-NHC(O) \mathbb{R}^3 wherein \mathbb{R}^3 is as previously defined, and
- (xxi) =N-NHC(O)NR⁵R⁶ wherein R⁵ and R⁶ are as previously defined,
- (5) C2-C10-alkynyl, and
- (6) C₂-C₁₀-alkynyl substituted with one or more substituents selected from the group consisting of
- (i) halogen,
- (ii) OR4 where R4 is defined as previously
- (iii)-CHO
- (iv) oxo
- (v) -CO₂R³ where R³ is as previously defined
- (vi) -C(O)NR⁵R⁶ wherein R⁵ and R⁶ are as previously defined
- (vii) -CN
- (viii)NR7R8 wherein R7 and R8 are as previously defined
- (ix) =N-O-R⁴ where R⁴ is as previously defined

- (x) -S(O)_nR³ where n and R³ are as previously defined
- (xi)aryl, and optionally substituted aryl
- (xii) heteroaryl, and optionally substituted heteroaryl
- (xiii) C3-C7-cycloalkyl
- (xiv) C1-C12-alkyl substituted with heteroaryl
- (xv) NHC(O)R3 where R3 is as previously defined
- (xvi) NHC(O)NR5R6 where R5 and R6 are as previously defined
- (xvii)=N-NR7R8 wherein R7 and R8 are as previously defined
- (xviii) =N-R4 wherein R4 is as previously defined
- (xix)=N-NHC(O)R3 wherein R3 is as previously defined, and
- (xx) =N-NHC(O)NR⁵R⁶ wherein R⁵ and R⁶ are as previously defined;

R2 is selected from the group consisting of

- (1) hydrogen
- (2) OH
- (3) OR3 where R3 is as previously defined
- (4) OC(O)R3 where R3 is as previously defined, and
- (5) O(CO)OR³ where R³ is as previously defined;

and X and Y taken together are selected from the group consisting of

- (1)
- (2) NOR⁴ wherein R⁴ is as defined previously
- (3) N-O C(R⁹)(CR¹⁰)-O-R⁴ where R⁴ is as previously defined and
- (i) R^9 and R^{10} are each independently defined as R^4 , or (ii) R^9 and R^{10} are taken together with the atom to which they are attached form a C_3 - C_{12} cycloalkyl ring,
- (4) NR⁴ wherein R⁴ is as previously defined, and
- (5) $N-NR^7R^8$ wherein R^7 and R^8 are as previously defined, or one of X and Y is hydrogen and the other is selected from the group consisting of
- (1) -OR4 wherein R4 is as previously defined, and
- (2) -NR⁷R⁸ wherein R⁷ and R⁸ are as previously defined.

RP is selected from the group consisting of

- (1) hydrogen
- (2) R3 as previously defined
 - (3) COR³ where R³ is as previously defined;

subject to the proviso that when the structure is IV, Z and M are part of a five- or six- membered ring, said rings optionally being fully or partially unsaturated; for the six- membered ring, the bonding between Z and M is through a carbonyl group; for the five- membered ring, the bonding

is directly between Z and M excluding CO; Z and M are independently selected from the group consisting of carbon, oxygen or N; and when M=N a second bridge may exist between this nitrogen and the oxygen of the 12-OH group whereby either an additional annulated oxazole or oxazine ring constitutes part of the molecule; and subject to the proviso that when the structure is V, Z and M are part of a five- or six- membered ring, said rings optionally being fully saturated or fully or partially unsaturated; for the six-membered ring, the bonding between Z and M is through a carbonyl group; for the five-membered ring, the bonding is directly between Z and M excluding CO; Z and M are independently selected from the group consisting of carbon, oxygen or nitrogen; and when M=N a second bridge may exist between this nitrogen and the urethane nitrogen;

wherein aryl groups have 5 to 10 ring atoms, and heteroaryl groups have 5 to 10 ring atoms including C and at least one of N, O or S.

- (Currently Amended) A pharmaceutical composition comprising an antibiotic 10desmethyl macrolide of claim 64 and a pharmaceutical excipient.
- (Cancelled)
- (Currently Amended) A method of treatment of a human or animal subject to combat bacterial infection thereof, which method comprises administering to said subject an antibiotic 10desmethyl macrolide of claim 61.
- 10. (Cancelled)